

FIG. 1

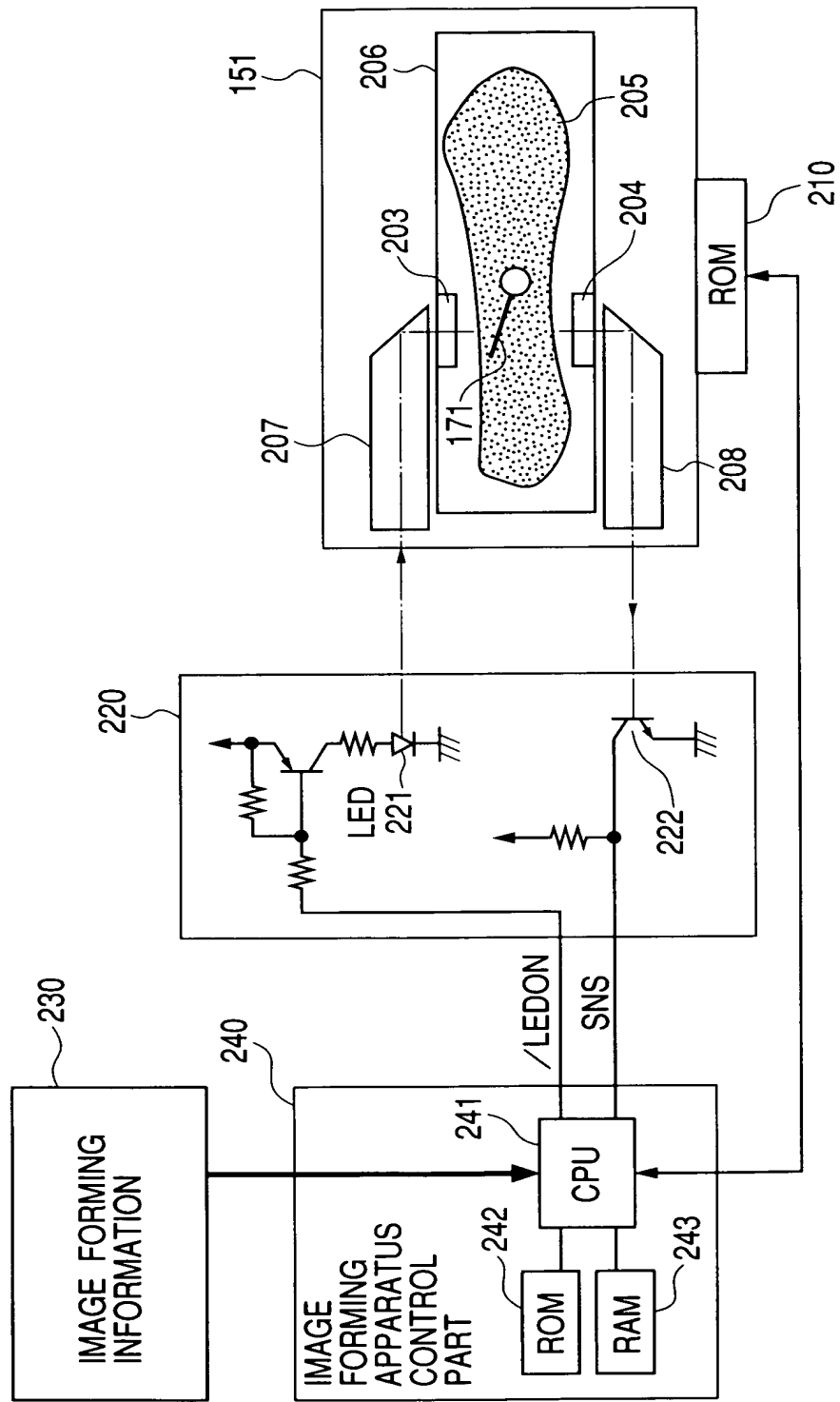
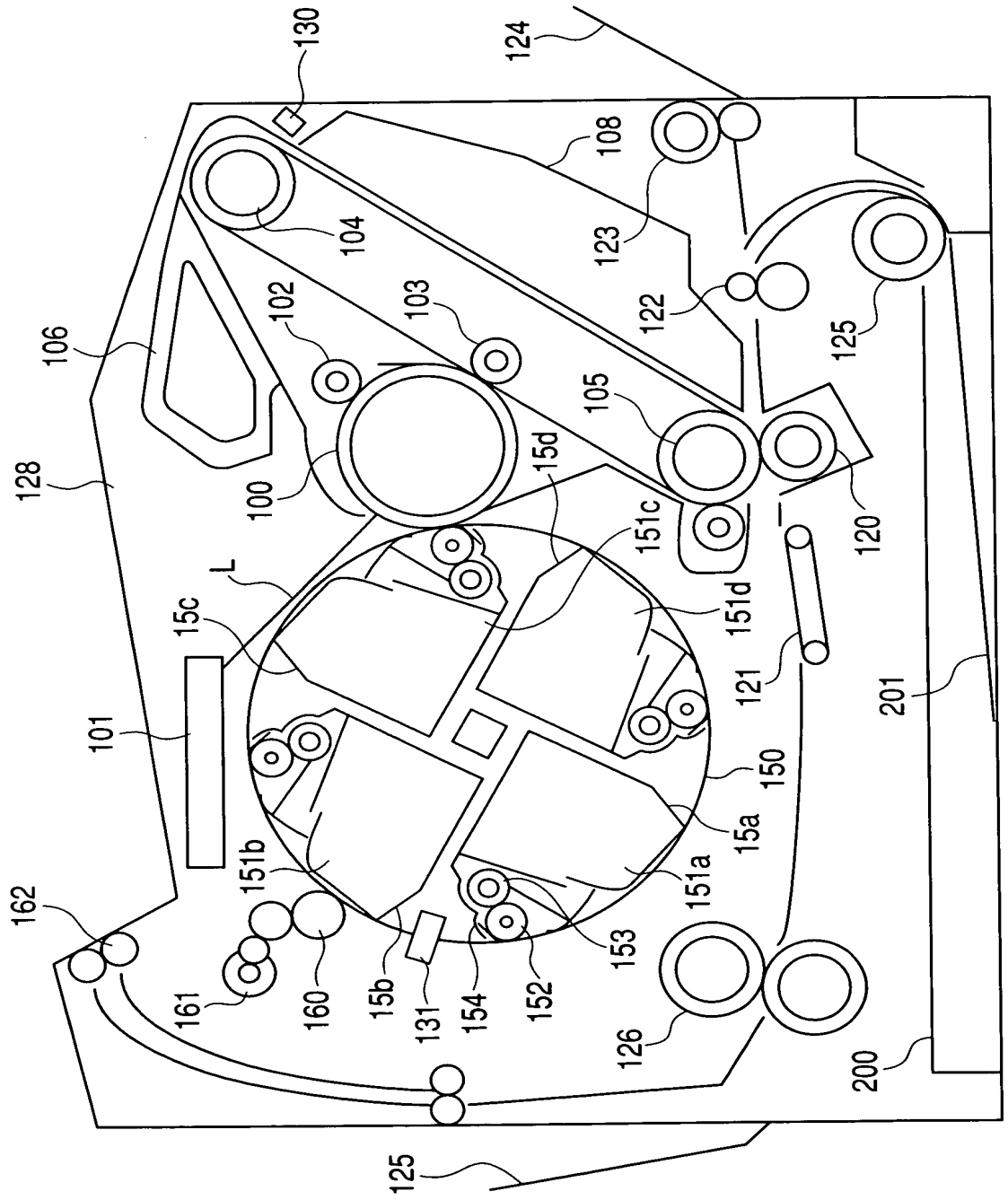


FIG. 2



**FIG. 3**

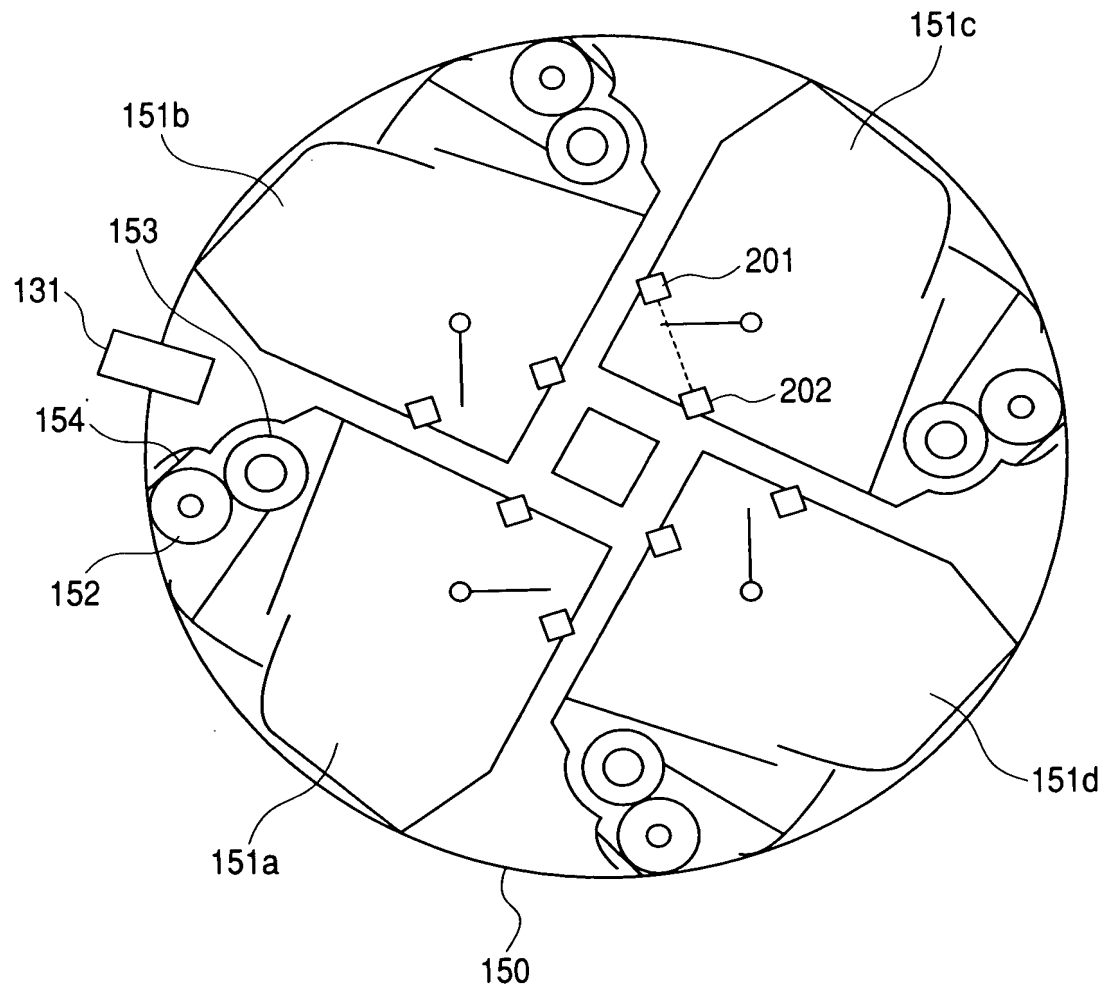


FIG. 4

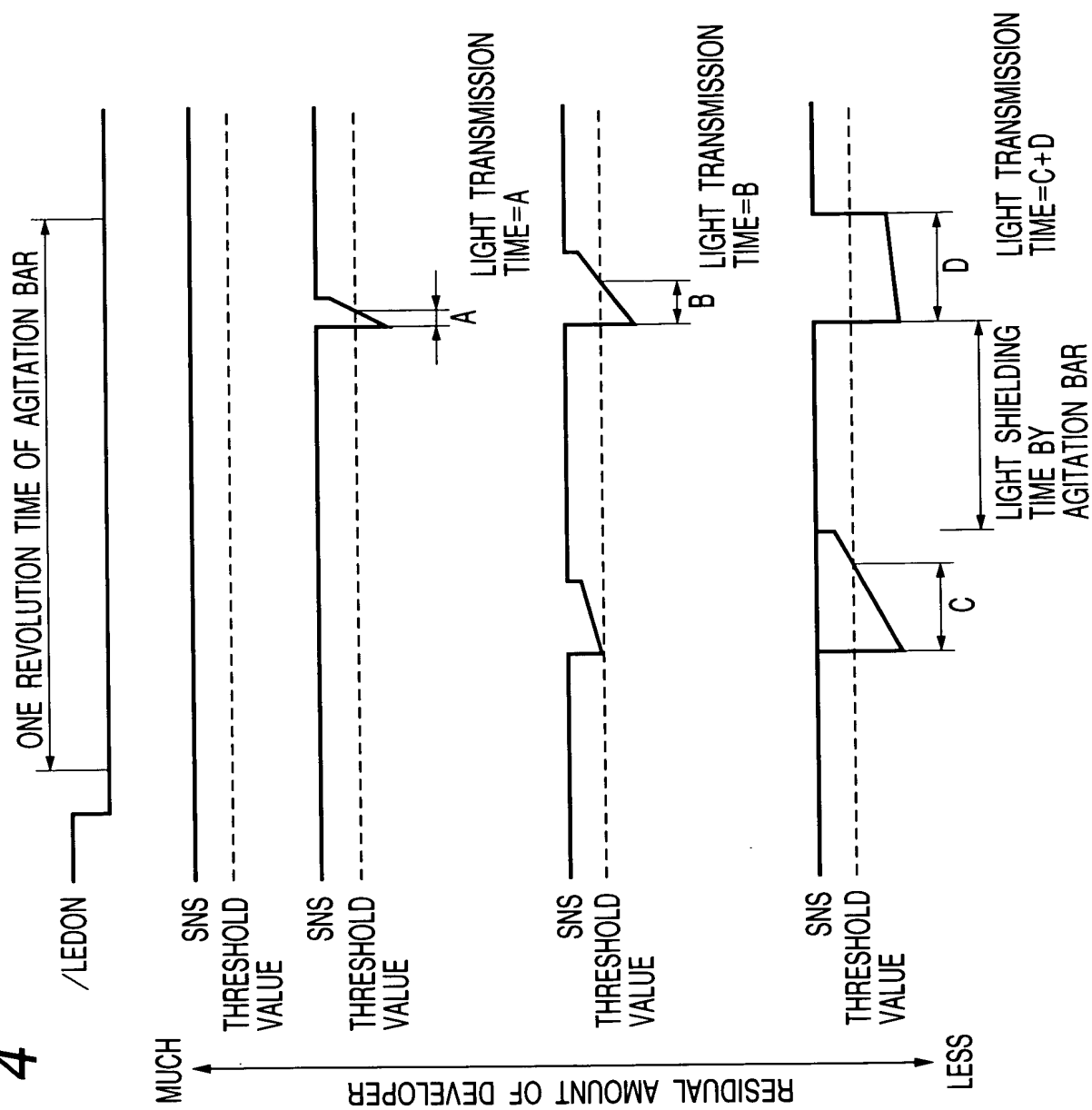
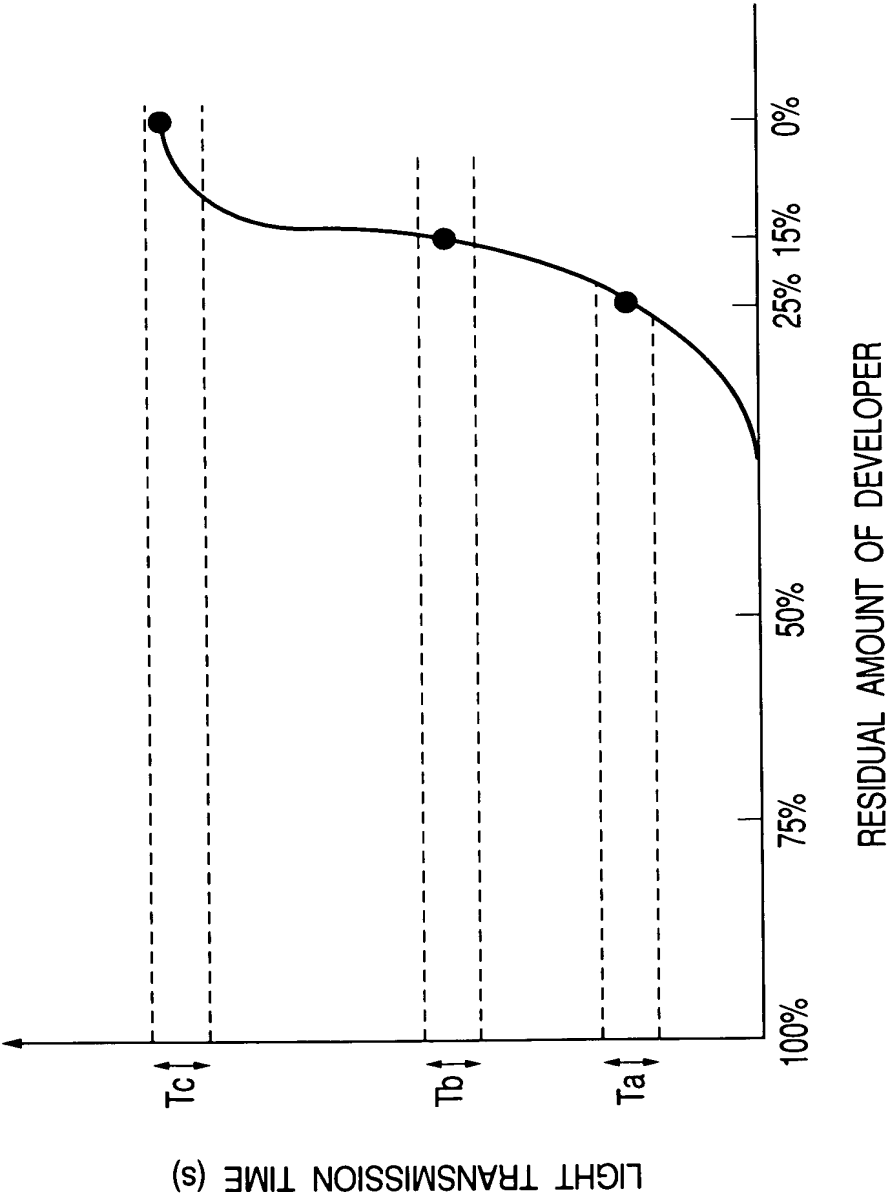


FIG. 5



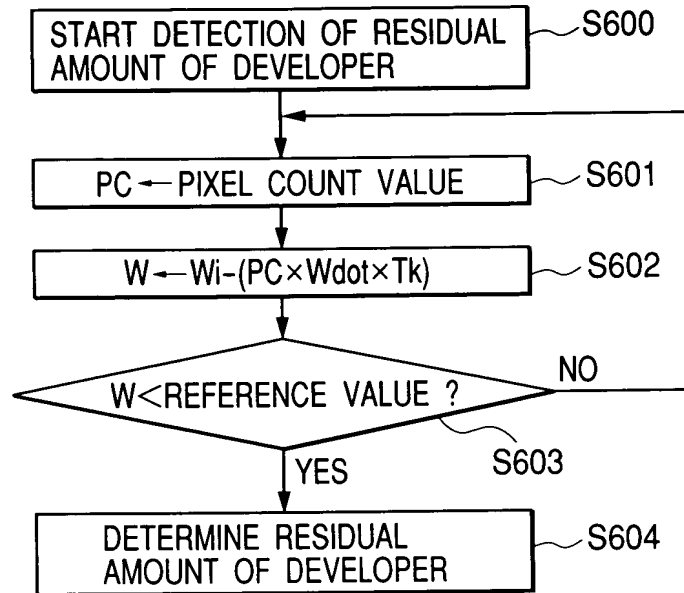
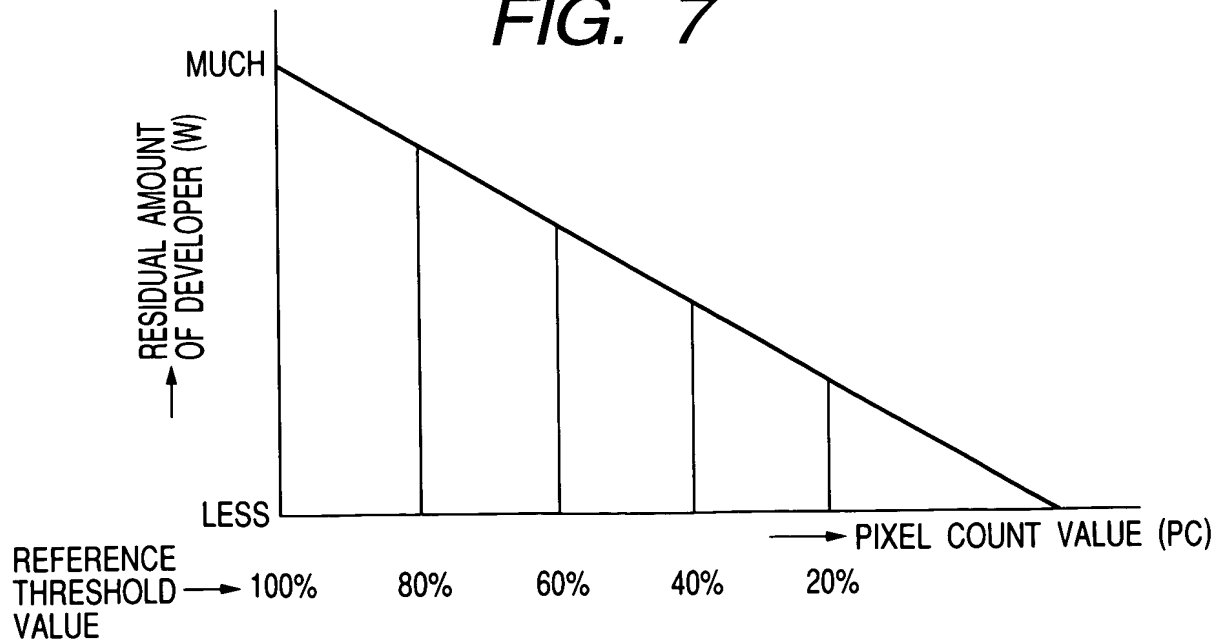
**FIG. 6****FIG. 7**

FIG. 8A

RESIDUAL AMOUNT LEVEL	OPTICAL DETECTION METHOD OF DEVELOPER AMOUNT	PRESUMPTION DETECTION METHOD OF DEVELOPER AMOUNT
A	KEEP LEVEL B BECAUSE OF RESIDUAL AMOUNT DETECTION INABILITY	100%
B		80%
C		60%
D		40%
E	30%	30%
	25%	
F	20%	20%
	15%	
G	10%	10%
	5%	
H	0%	0%

FIG. 8B

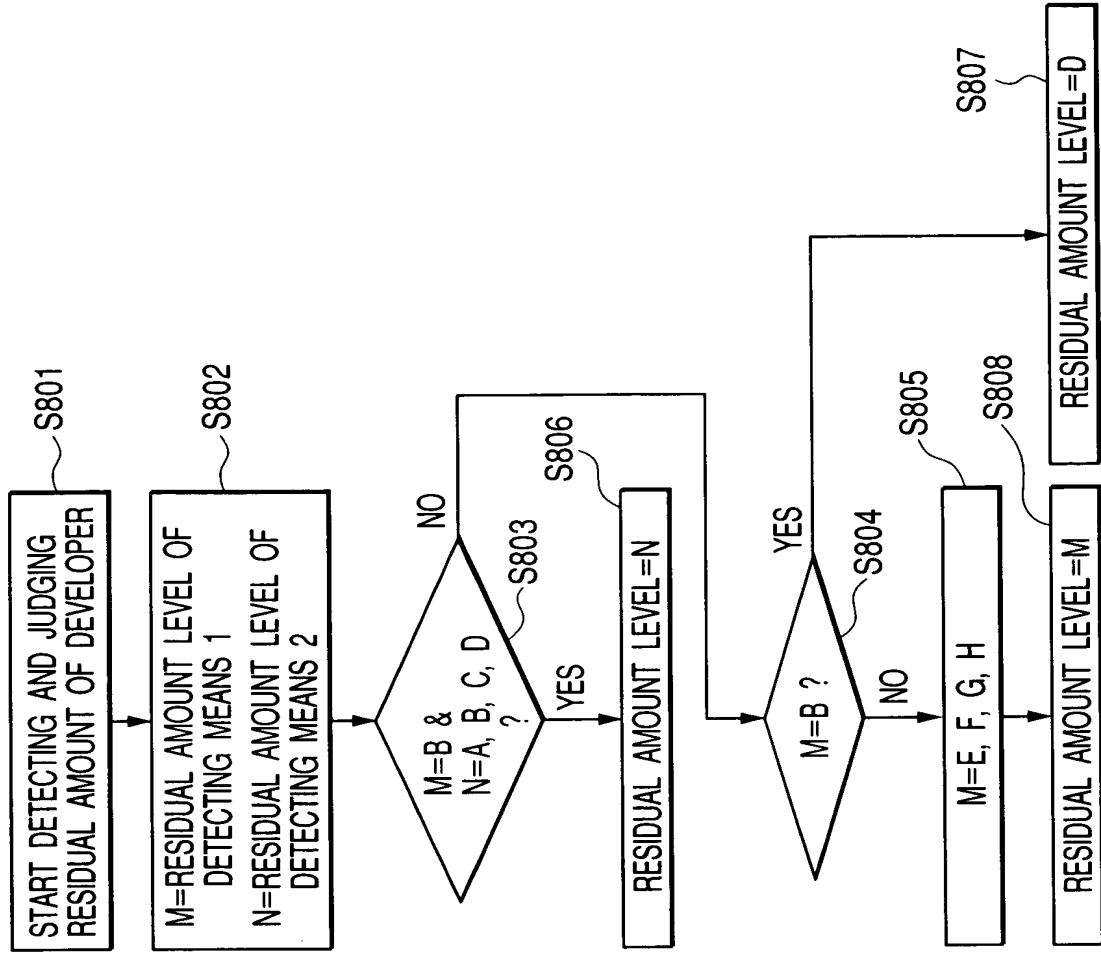
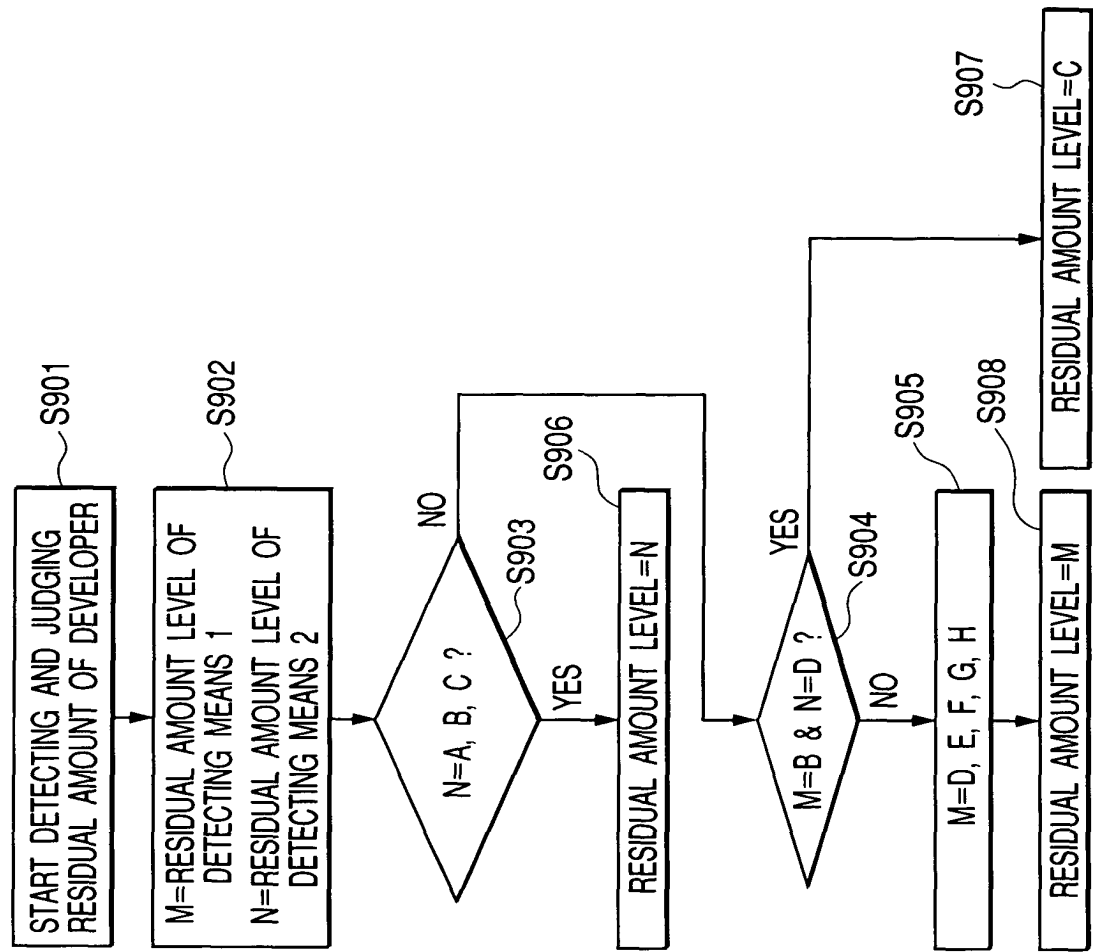


FIG. 9A

RESIDUAL AMOUNT LEVEL	OPTICAL DETECTION METHOD OF DEVELOPER AMOUNT	PRESUMPTION DETECTION METHOD OF DEVELOPER AMOUNT
A	M=B	100%
B		80%
C		60%
D	40%	40%
E	30%	N=D
	25%	
F	20%	
	15%	
G	10%	
	5%	
H	0%	

FIG. 9B





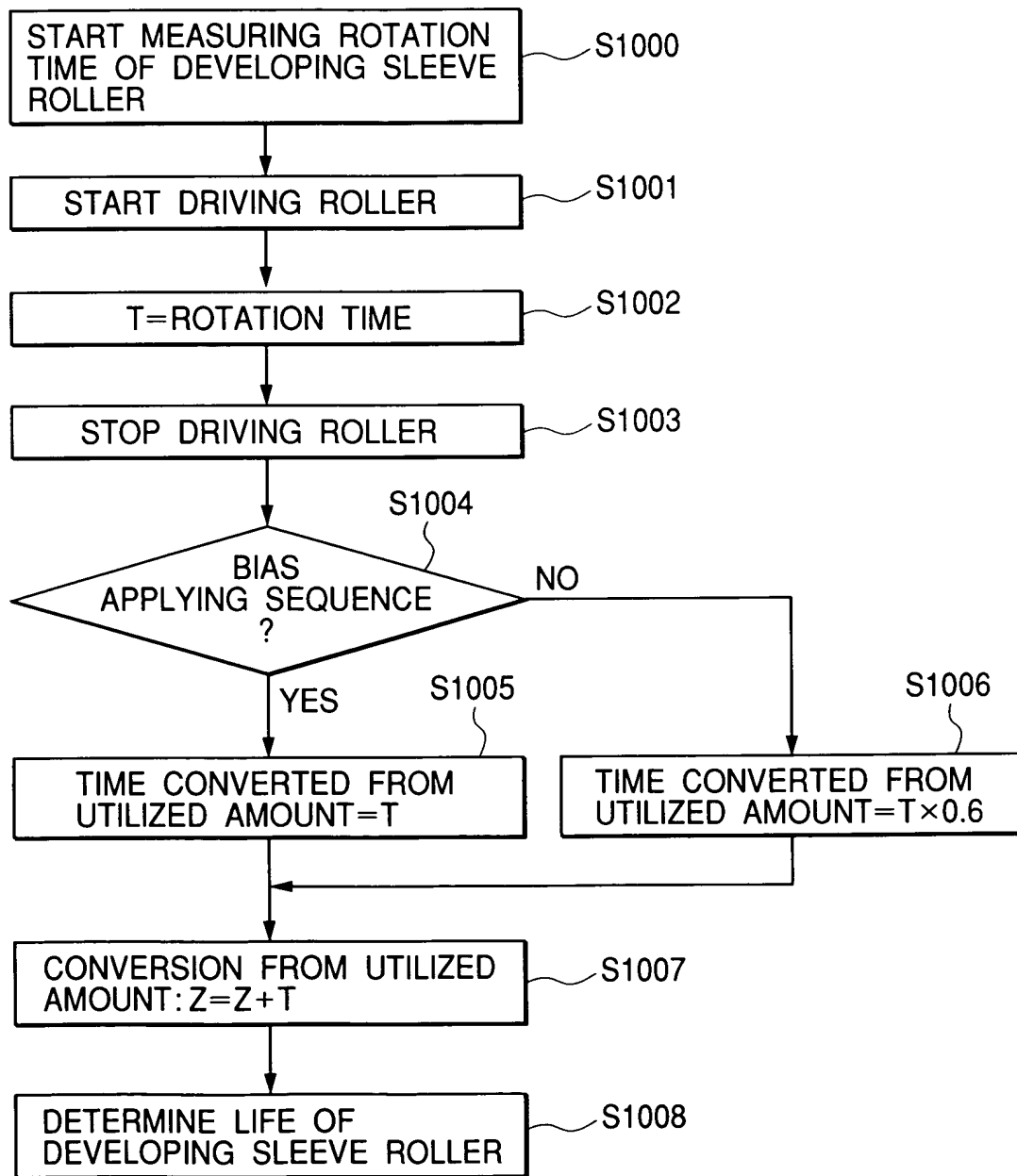
**FIG. 10**

FIG. 11

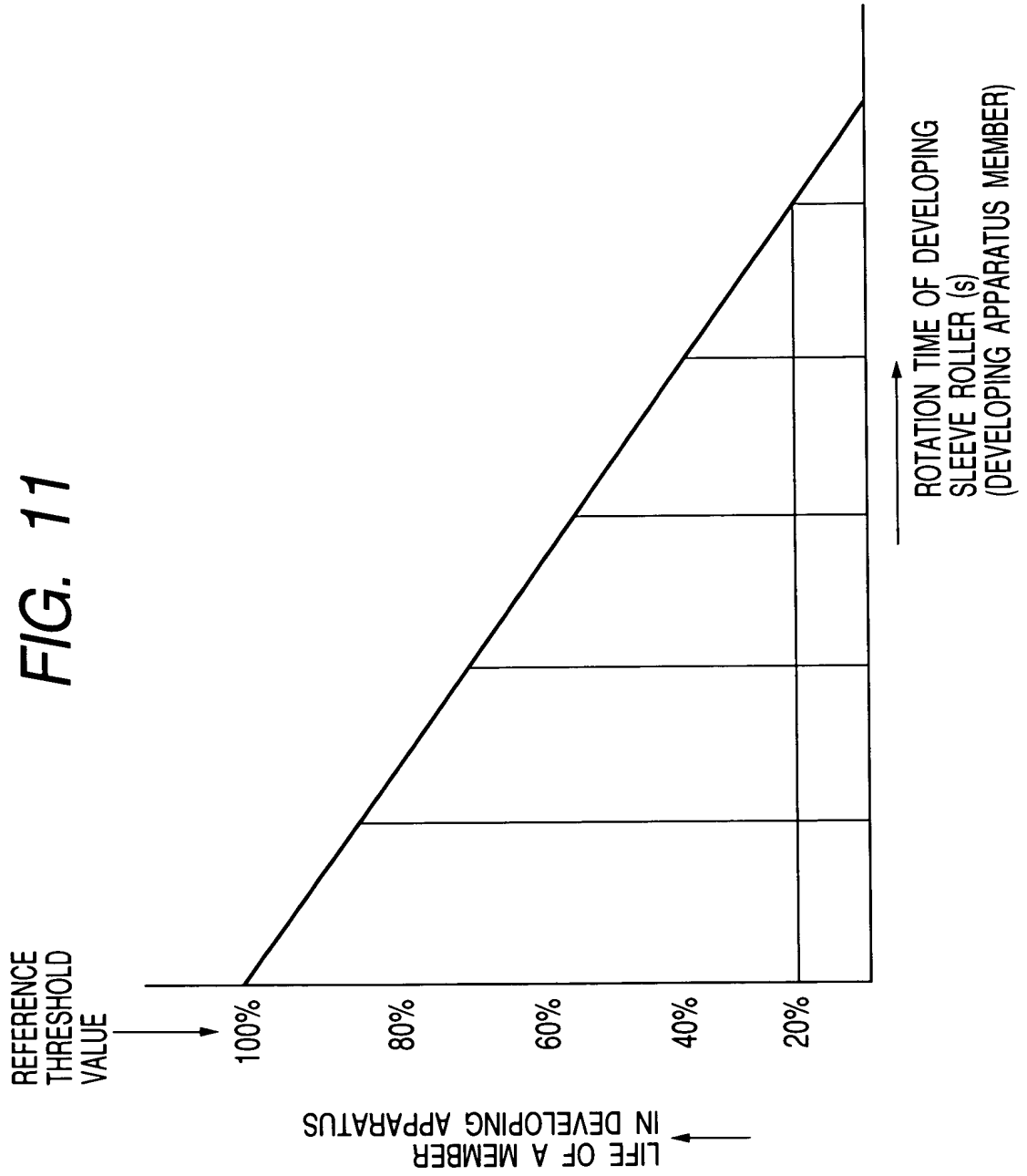


FIG. 12A

RESIDUAL AMOUNT LEVEL	OPTICAL DETECTION METHOD OF DEVELOPER AMOUNT	UTILIZED AMOUNT DETECTING METHOD OF DEVELOPER BEARING BODY
A	KEEP LEVEL B BECAUSE OF RESIDUAL AMOUNT DETECTION INABILITY	100%
B		80%
C		60%
D		40%
E	30%	30%
	25%	
F	20%	20%
	15%	
G	10%	10%
	5%	
H	0%	0%

FIG. 12B

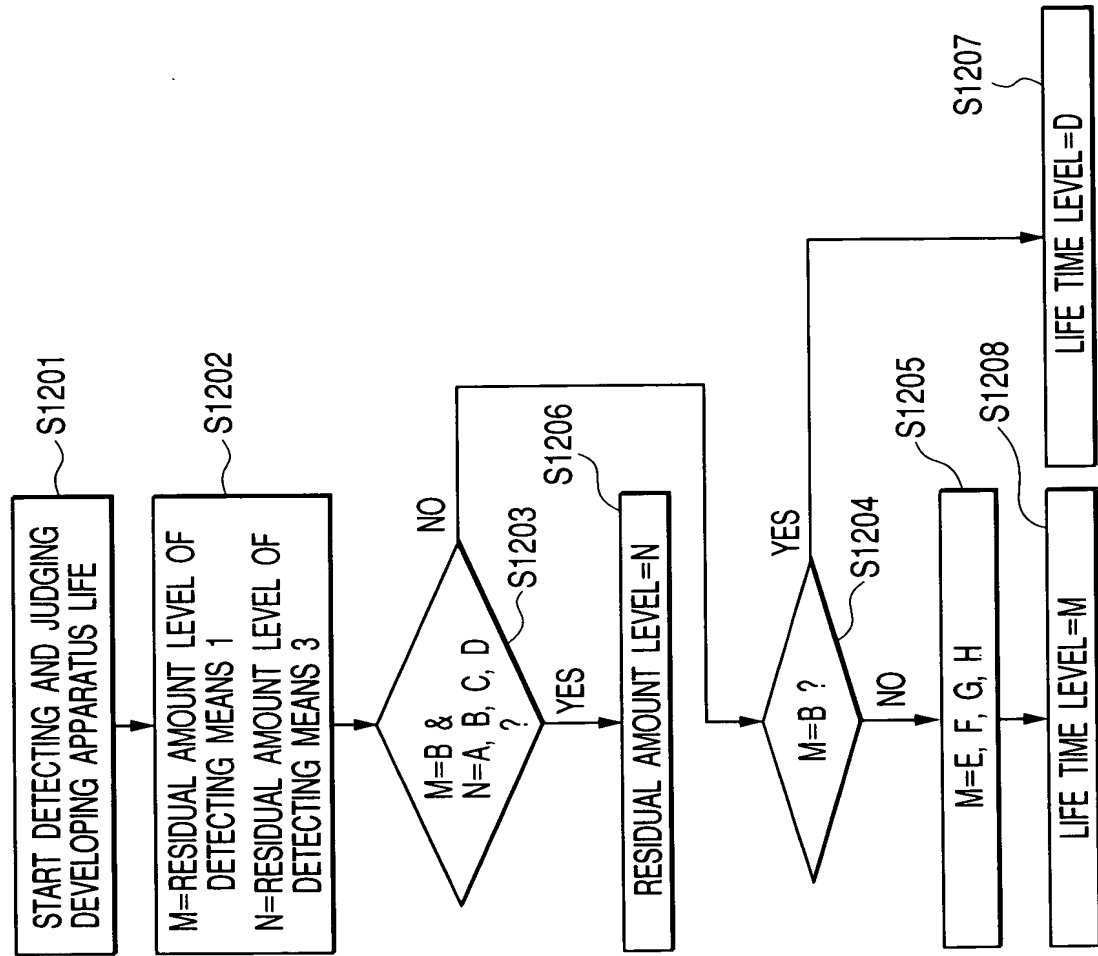


FIG. 13A

RESIDUAL AMOUNT LEVEL	OPTICAL DETECTION METHOD OF DEVELOPER AMOUNT	UTILIZED AMOUNT DETECTING METHOD OF DEVELOPER BEARING BODY
A	M=B	100%
B		80%
C		60%
D	40%	40%
E	30%	N=D
	25%	
F	20%	
	15%	
G	10%	
	5%	
H	0%	

FIG. 13B

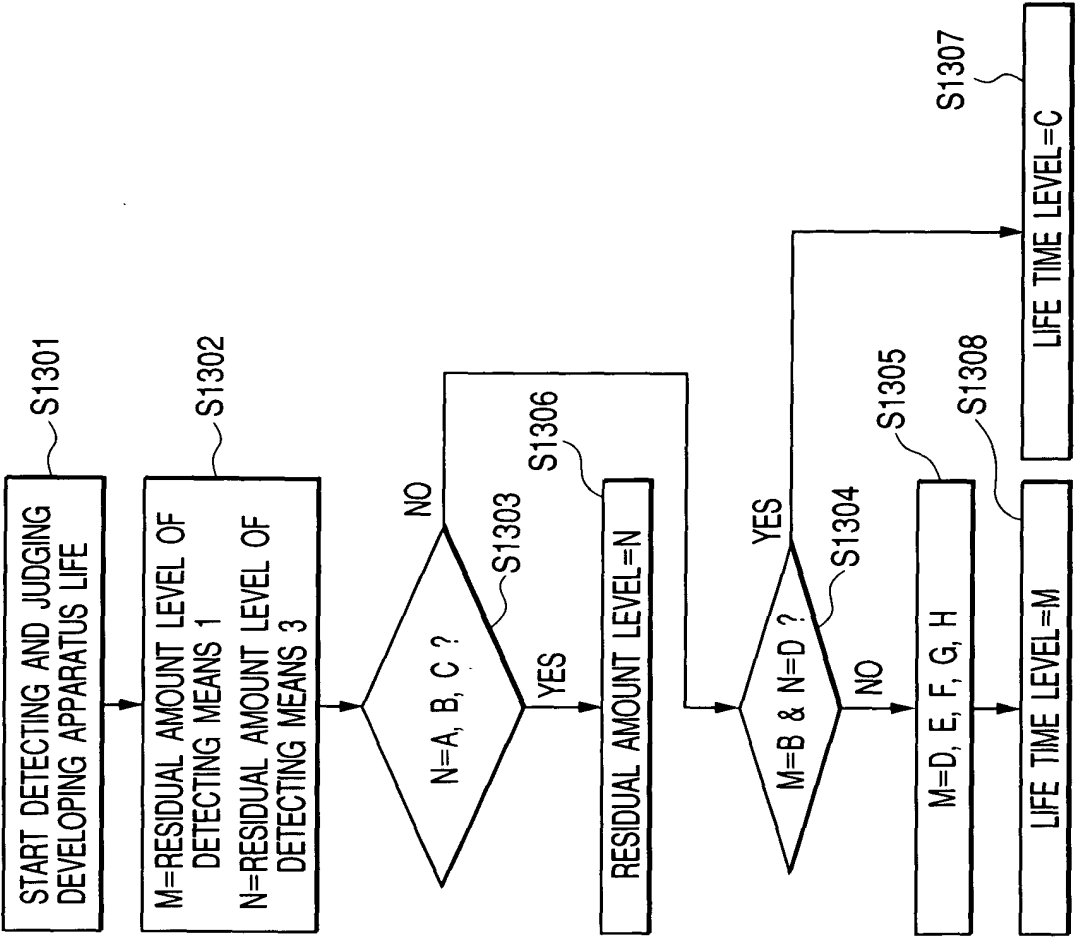
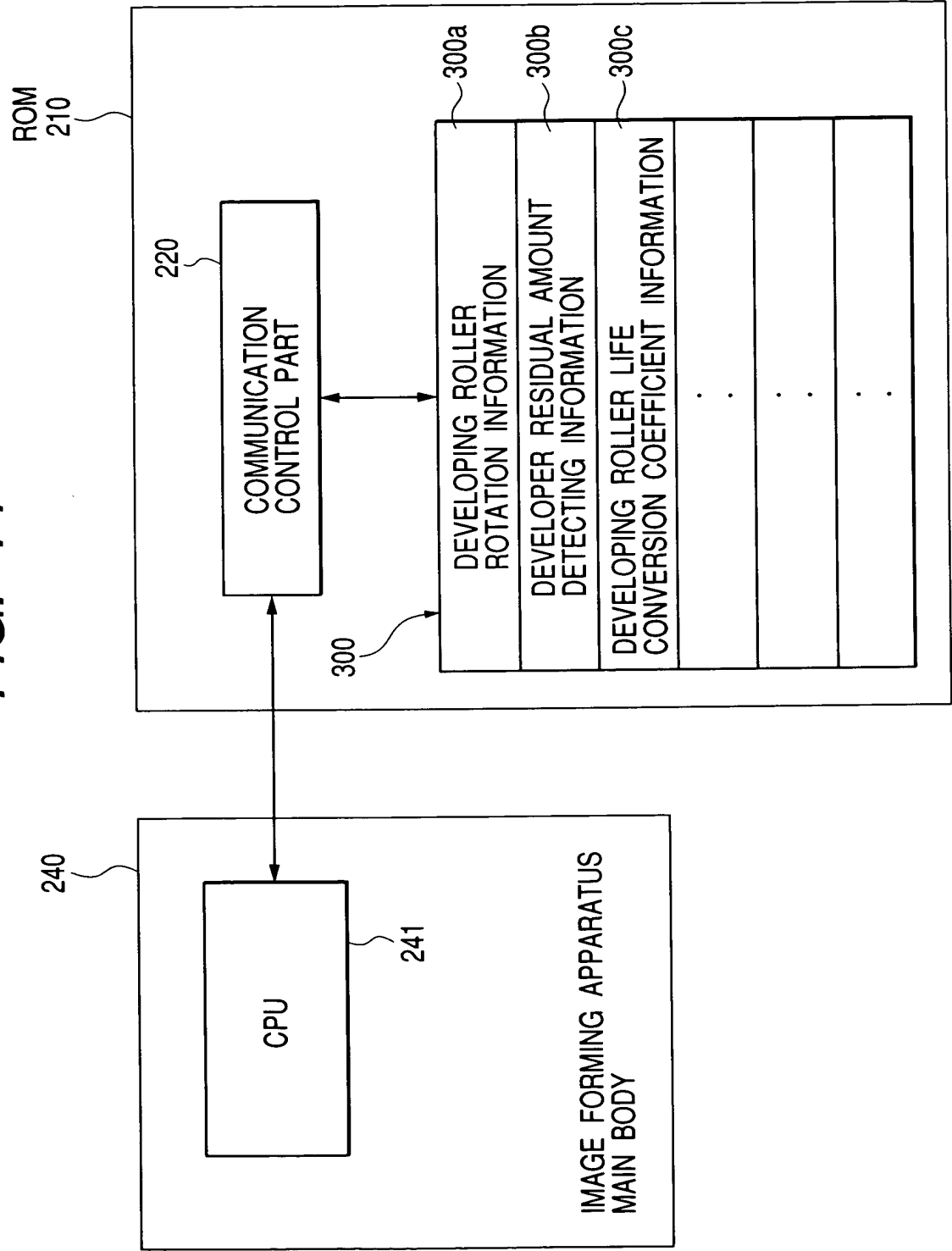
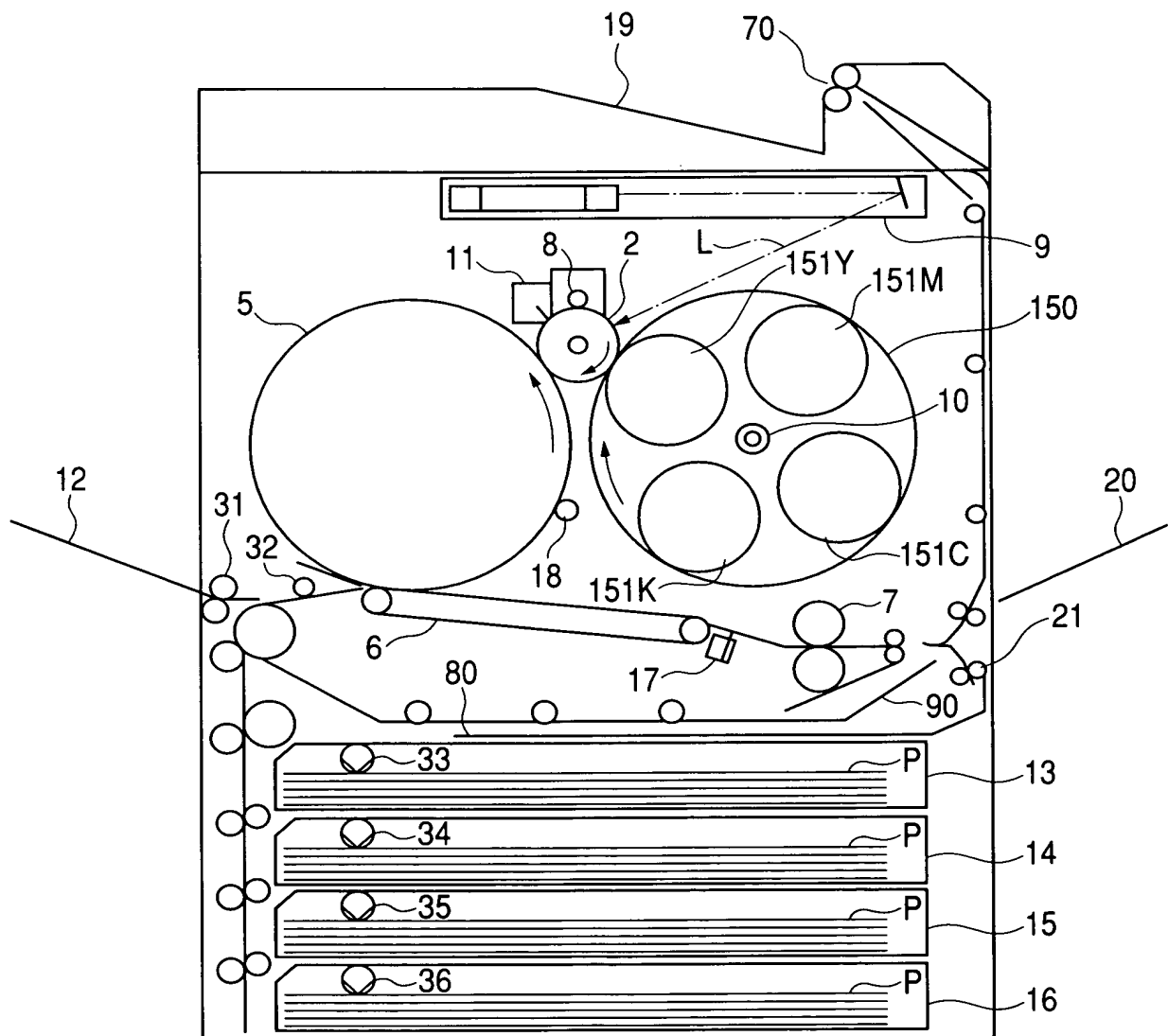
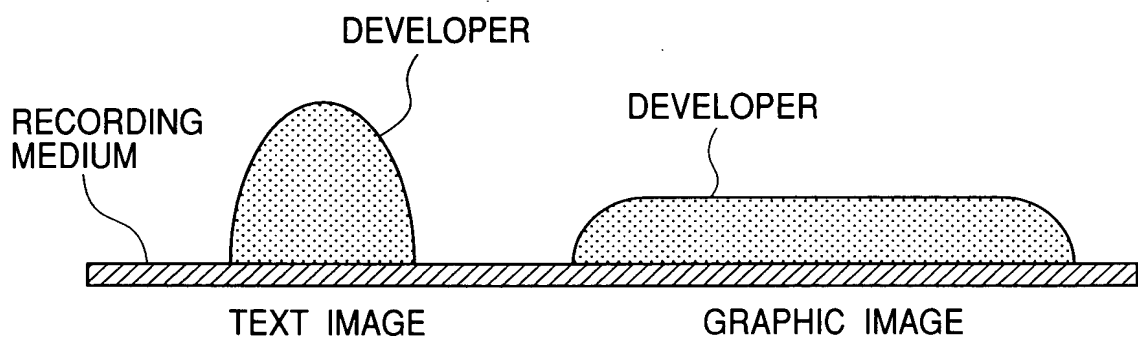


FIG. 14



**FIG. 15**

**FIG. 16****FIG. 17**